# EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L1 | 145726 | "220"/$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L2 | 534 | L1 and olefin | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L3 | 198 | L2 and styrene | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L4 | 163 | L3 and copolymer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L5 | 27 | L4 and lubricant | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L6 | 139 | thermoplastic and chamber and seal and copolymer and olefin and lubricant and weight | USPAT | OR | OFF | 2011/10/24 16:40 |
| L7 | 98 | L6 and polyolefin | USPAT | OR | OFF | 2011/10/24 16:40 |
| L8 | 64 | L7 and friction | USPAT | OR | OFF | 2011/10/24 16:40 |
| L9 | 55 | L8 and ethylene | USPAT | OR | OFF | 2011/10/24 16:40 |
| L10 | 17 | L9 and aperture | USPAT | OR | OFF | 2011/10/24 16:40 |
| L11 | 1 | ("6604561").PN. | USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |

| L12 | 78 | ("2503147" \| "3092278" "3340671" \| "3424329" "3685248" \| "4250611" "4366912" \| "4390111" "4664275" \| "4682703" "4703781" \| "4842028" "5085332" \| "5088612" "5129212" \| "5341854" "5411065" \| "5484566" "5514339" \| "5549141" "5641004" \| "5816772" "6021824" \| "6068150").PN. OR ("6604561").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
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| L13 | 91 | ("20010041872" \| "20020006353" \| "20020010995" \| "20020018731" \| "20020029022" \| "20020131902" \| "20020172615" \| "20030156973" \| "2503147" \| "2667986" \| "3092278" \| "3136440" \| "3278063" \| "3340671" \| "3392859" \| "3424329" \| "3685248" \| "3811591" \| "4048255" \| "4250611" \| "4366912" \| "4390111" \| "4444330" \| "4499148" \| "4664275" \| "4682703" \| "4703781" \| "4815619" \| "4834152" \| "4842028" \| "4910435" \| "5009654" \| "5031675" \| "5038839" \| "5085332" \| "5088612" \| "5088995" \| "5129212" \| "5341854" \| "5390469" \| "5411065" \| "5414267" \| "5484566" \| "5496302" \| "5514339" \| "5549141" \| "5612588" \| "5641004" \| "5673535" \| "5702019" \| "5816772" \| "5842321" \| "5909032" \| "5971181" \| "6021824" \| "6050435" \| "6068150" \| "6140657" \| "6168037" \| "6199350" \| "6308494" \| "6343711" \| "6364864" \| "6382441" \| "6385943" \| "6604561" \| "RE35203" \| "RE37471"). PN. OR ("7032631"). URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |

| L14 | 1 | ("6604561").PN. | USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
|---|---|---|---|---|---|---|
| L15 | 3000 | thermoplastic and copolymer and olefin and lubricant and weight | USPAT | OR | OFF | 2011/10/24 16:40 |
| L16 | 106 | L15 and vial | USPAT | OR | OFF | 2011/10/24 16:40 |
| L17 | 67 | L16 and needle | USPAT | OR | OFF | 2011/10/24 16:40 |
| L18 | 145726 | "220"/$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L19 | 534 | L18 and olefin | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L20 | 198 | L19 and styrene | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L21 | 163 | L20 and copolymer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L22 | 27 | L21 and lubricant | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L23 | 139 | thermoplastic and chamber and seal and copolymer and olefin and lubricant and weight | USPAT | OR | OFF | 2011/10/24 16:40 |
| L24 | 98 | L23 and polyolefin | USPAT | OR | OFF | 2011/10/24 16:40 |
| L25 | 64 | L24 and friction | USPAT | OR | OFF | 2011/10/24 16:40 |
| L26 | 55 | L25 and ethylene | USPAT | OR | OFF | 2011/10/24 16:40 |
| L27 | 17 | L26 and aperture | USPAT | OR | OFF | 2011/10/24 16:40 |
| L28 | 1 | ("6604561").PN. | USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |

| L29 | 78 | ("2503147" \| "3092278" \| "3340671" \| "3424329" \| "3685248" \| "4250611" \| "4366912" \| "4390111" \| "4664275" \| "4682703" \| "4703781" \| "4842028" \| "5085332" \| "5088612" \| "5129212" \| "5341854" \| "5411065" \| "5484566" \| "5514339" \| "5549141" \| "5641004" \| "5816772" \| "6021824" \| "6068150").PN. OR ("6604561").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
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| L31 | 1 | ("6604561").PN. | USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
|-----|-----|-----|-----|-----|-----|-----|
| L32 | 3000 | thermoplastic and copolymer and olefin and lubricant and weight | USPAT | OR | OFF | 2011/10/24 16:40 |
| L33 | 106 | L32 and vial | USPAT | OR | OFF | 2011/10/24 16:40 |
| L34 | 67 | L33 and needle | USPAT | OR | OFF | 2011/10/24 16:40 |
| L35 | 67757 | "53"/$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L36 | 1592 | L35 and needle | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L37 | 130 | L36 and $4olefin | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L38 | 41 | L37 and vial | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L39 | 42032 | "141"/$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L40 | 2084 | L39 and needle | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L41 | 108 | L40 and $4olefin | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L42 | 104 | L41 and method | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L43 | 53 | L42 and elongat$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L44 | 44 | L43 and weight | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |

| L45 | 43 | L44 and hermetic$4 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L46 | 43 | L45 and thermoplastic | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L47 | 43 | L46 and copolymer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L48 | 43 | L47 and first and second | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L49 | 37 | L48 and injection | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L50 | 37 | L49 and member | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L51 | 37 | L50 and friction | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L52 | 31 | L51 and lubricant | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L53 | 20 | L52 and non-coring | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO | OR | OFF | 2011/10/24 16:40 |
| L54 | 4 | (("5421469") or ("5314084") or ("3815771") or ("5718348")).PN. | USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
| L55 | 63 | (215/248).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L56 | 32 | L55 and filter | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |

| L57 | 11 | L56 and pierce | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
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| L58 | 102 | ("2364126" \| "2794437" \| "3882909" \| "3993063" \| "4191225" \| "4196732" \| "4211588" \| "4312349" \| "4457749" \| "4552277" \| "4564054" \| "4576211" \| "4582207" \| "4588403" \| "4589879" \| "4600040" \| "4607671" \| "4619651" \| "4645073" \| "4671331" \| "4673404" \| "4768568").PN. OR ("4834149").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
| L59 | 68 | ("20020161334" \| "20030088216" \| "20040256026" \| "20050178462" \| "20050178462" \| "20070084524" \| "20070156102" \| "20080028632" \| "20080039773" \| "4185628" \| "5137511" \| "5364369" \| "5509433" \| "5641004" \| "5702019" \| "5779668" \| "5823373" \| "5871110" \| "5876372" \| "5971181" \| "6003702" \| "6021824" \| "6070623" \| "6168037" \| "6267154" \| "6306423" \| "6312708" \| "6383509" \| "6564471" \| "6604561" \| "6684916" \| "6929040" \| "6984395" \| "7077176" \| "7100646" \| "7186241" \| "7568509").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L60 | 1 | ("5549141").PN. | USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |

| L61 | 102 | ("2364126" \| "2794437" \| "3882909" \| "3993063" \| "4191225" \| "4196732" \| "4211588" \| "4312349" \| "4457749" \| "4552277" \| "4564054" \| "4576211" \| "4582207" \| "4588403" \| "4589879" \| "4600040" \| "4607671" \| "4619651" \| "4645073" \| "4671331" \| "4673404" \| "4768568").PN. OR ("4834149").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
|---|---|---|---|---|---|---|
| L62 | 849 | (141/329).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L63 | 135 | L62 and filter | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L64 | 69 | L63 and vial | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L65 | 59 | L64 and syringe | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L66 | 3 | (("4576211") or ("2627857")).PN. | USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
| L67 | 333 | (604/406).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L68 | 275 | L67 and filter | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |

| L69 | 78 | L68 and syringe | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
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| L70 | 33 | L69 and bag | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L71 | 604 | (604/416).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L72 | 112 | L71 and filter | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L73 | 64 | L72 and syringe | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L74 | 33 | L73 and vial | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L75 | 31 | L65 and bag | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L76 | 537 | (141/330).CCLS. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |

| L77 | 95 | L76 and filter | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
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| L78 | 22 | L77 and vial | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L79 | 20 | L78 and syringe | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L80 | 69 | ("2584397" \| "3343538" \| "3941171" \| "4038981" \| "4246932" \| "4252159" \| "4378013" \| "4401432" \| "4433974" \| "4434820" \| "4516967" \| "4543101" \| "4564054" \| "4568346" \| "4576211" \| "4675020" \| "4715851" \| "4722733" \| "4729401" \| "4768568" \| "4787898" \| "4834149" \| "4856567" \| "4883483" \| "4900322" \| "4927423" \| "4936841" \| "5045081" \| "5114411" \| "5188615" \| "5304165" \| "5330426" \| "5342346" \| "5348548" \| "5350372" \| "5360410" \| "5393497" \| "5397303" \| "5445631" \| "5466220" \| "5478337" \| "5526853" \| "5531683" \| "5603695" \| "5624638" \| "5636660" \| "5855575" \| "5873872" \| "5876372" \| "5879345" \| "5925029" \| "5928213" \| "5944709" \| "5954696" \| "6003566" \| "6036680" \| "6117123" \| "6139534" \| "6224346" \| "6238372" \| "6355023" \| "6364865" \| "6379340" \| "6409708" \| "6474375").PN. OR ("6948522").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
| L81 | 38437 | "221"/$.ccls. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |

| L82 | 8 | L81 and (grocery adj bag) | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
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| L83 | 26 | ("20020087118" \| "20030181863" \| "3359977" \| "4576211" \| "4759756" \| "5184652" \| "5647409" \| "6221041" \| "6378576" \| "6409708" \| "6715520").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L84 | 271 | (141/319).CCLS. | USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
| L85 | 6 | L84 and vial and syringe and housing | USPAT | OR | OFF | 2011/10/24 16:40 |
| L86 | 13 | ("4432755" \| "4697622" \| "5329976" \| "5358501" \| "5393497" \| "6120490" \| "6503240").PN. OR ("7086431").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
| L87 | 61 | ("2609818" \| "3040743" \| "3506006" \| "3563373" \| "3892237" \| "4303069" \| "4732850" \| "4779763" \| "4861335" \| "4958622" \| "5067948").PN. OR ("5393497").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
| L88 | 515 | (141/330).CCLS. | USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
| L89 | 14 | L88 and vial and syringe and housing | USPAT | OR | OFF | 2011/10/24 16:40 |
| L90 | 1 | ("20070079894").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2011/10/24 16:40 |
| L91 | 908 | adsorbent adj filter | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L92 | 24 | L91 and vial and syringe | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L93 | 106655 | "604"/$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |

| L94 | 698 | L93 and adsorbent | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L95 | 354 | L94 and (membrane filter) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L96 | 86 | L95 and charcoal | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L97 | 12 | L96 and cloth | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L98 | 32 | L93 and (adsorbent near5 filter) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |
| L99 | 1 | L98 and vial and syringe | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2011/10/24 16:40 |

**10/ 24/ 2011 4:43:40 PM**
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